

**What is claimed is:**

1. A device for the controlled inhalation of therapeutic aerosols, comprising
  - 5 means for providing individual patient parameters and/or aerosol parameters for the inhalation; and
  - adjusting means for adjusting individual aerosol doses on the basis of the predetermined individual patient parameters and/or aerosol parameters.
- 10 2. The inhalation device according to claim 1, wherein the provision means comprise a memory medium.
3. The inhalation device according to claim 2, wherein the memory medium is an active or passive memory medium.
- 15 4. The inhalation device according to claim 2, wherein the memory medium is a FlashCard, SmartCard or SmartLabel memory medium.
5. The inhalation device according to claim 1, wherein the provision means comprise a modem.
6. The inhalation device according to claim 1, wherein the
  - 20 provision means comprise input means for manually inputting individual parameters.
7. The inhalation device according to claim 2, wherein the individual patient parameters and/or aerosol parameters are stored on the memory medium before the inhalation.
- 25 8. The inhalation device according to claim 2, wherein the memory medium stores the breathing maneuvers carried out.
9. The inhalation device according to claim 1, wherein the provision means are provided with manually operable control units and/or switches.

10. The inhalation device according to claim 1, wherein the adjusting means for adjusting the individual aerosol doses reads out the individual patient parameters and/or aerosol parameters for the inhalation from the provision means, evaluates them and, on the basis thereof, adjusts the respiratory flow and the tidal volume of the inhalation device.
- 5

11. Use of the inhalation device according to claim 1 for medicinal agents that become effective topically in the respiratory system or systemically.